

|||||
Db 361 CTKVTMDDFLTAHHEMGIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS 420
QY 421 IGLLSPDFQEDNTEINFLKQALTIIVGTLPTFTYMLEKRWVWFGEIPKQDQMKKWEM 480
Db 421 IGLLSPDFQEDNTEINFLKQALTIIVGTLPTFTYMLEKRWVWFGEIPKQDQMKKWEM 480
QY 481 KREIVGVPEVPHDETYCDPASLFHVNDYSFIRYTRTLXQFQEQALCOAAKHEGPLH 540
Db 481 KREIVGVPEVPHDETYCDPASLFHVNDYSFIRYTRTLXQFQEQALCOAAKHEGPLH 540
QY 541 KCDISNSTEAGOKLFNMLRLGKSEPTWTLALENVVGAKNMVRPLLNYFEPLFTWLKDQNK 600
Db 541 KCDISNSTEAGOKLFNMLRLGKSEPTWTLALENVVGAKNMVRPLLNYFEPLFTWLKDQNK 600
QY 601 NSFVGSWTDSWPYADQSIKVRISLKSALGDKAYENDNEMYLFRSSVAYAMROYFLVKVN 660
Db 601 NSFVGSWTDSWPYADQSIKVRISLKSALGDKAYENDNEMYLFRSSVAYAMROYFLVKVN 660
QY 661 QMILFGEEDVRVANLKPRIISFNFPVTAPKNVSDIIPRTEVEKAIKMSRSRINDAFRLNDN 720
Db 661 QMILFGEEDVRVANLKPRIISFNFPVTAPKNVSDIIPRTEVEKAIKMSRSRINDAFRLNDN 720
QY 721 SLEFLGIQPTLGPNNOPPVSIWLVFGVWGVIVVGIIVLIFTGIRDRKKKARKSGENP 780
Db 721 SLEFLGIQPTLGPNNOPPVSIWLVFGVWGVIVVGIIVLIFTGIRDRKKKARKSGENP 780
QY 781 YASIDISKGENNPGFQNTDDVQTSF 805
Db 781 YASIDISKGENNPGFQNTDDVQTSF 805

RESULT 4

AAB48095
ID AAB48095 standard; Protein; 805 AA.
AC AAB48095;
XX
DT 19-MAR-2001 (first entry)
XX Human Zace2 protein.
DE
KW Zace2: metalloenzyme; angiotensin-converting enzyme; ACE; fertility;
KW zinc metalloproteinase; blood pressure; zinc protease; hypertension;
KW ventricular systolic dysfunction; renal impairment; heart failure;
KW scleroderma renal crisis; atherosclerosis; antiinflammatory; human;
KW antiarthritic; bradykinin inactivator.
XX
OS Homo sapiens.
XX WO200070032-A1.
XX
XX 23-NOV-2000.
XX
XX 03-MAY-2000; 2000WO-US11932.
XX
XX 13-MAY-1999; 99US-0311482.
XX 27-AUG-1999; 99US-0384706.
XX (ZYMO) ZYMOGENETICS INC.
XX
XX Piddington CS, Petrie CR, Shoemaker KE, Bishop PD;
XX WPI; 2001-025018/03.
XX N-PSDB; AAC84366, AAC84367.
XX
XX Angiotensin-converting enzyme, Zace2, useful for treating inflammatory
XX bowel disease, e.g. Crohn's disease and ulcerative colitis, or diseases
XX associated with inflammation such as arthritis and enterocolitis -
XX Example 1; Page 95-100; 125pp; English.
XX
XX The invention relates to the metalloenzyme Zace2. Zace2, an angiotensin-

CC converting enzyme is a zinc metalloproteinase that plays roles in blood
CC pressure regulation and fertility. Zace2 polypeptides can be expressed by standard
CC recombinant methodology. Zace2 polypeptides are useful for treating an
CC inflammatory bowel disease (e.g. Crohn's disease and ulcerative colitis),
CC diseases associated with inflammation like arthritis and enterocolitis,
CC as targets for identifying modulators of zinc protease activity, for
CC screening or identifying new angiotensin-converting enzyme (ACE)
CC inhibitors, and as a basis for rational drug design for inhibitory
CC molecules. The nucleic acids can be used to detect the expression of a
CC Zace2 gene in a biological sample, as probes for in vivo diagnosis and
CC for detecting and localizing Zace2 gene expression in tissue samples,
CC to determine whether a subject's chromosomes contain a mutation in the
CC Zace2 gene, and to detect aberrations associated with the Zace2 locus.
CC Inhibitors of ACE are used for treating hypertension of various
CC conditions, including left ventricular systolic dysfunction, progressive
CC renal impairment, scleroderma renal crisis, congestive heart failure due
CC to dysfunction, and treatment of atherosclerosis. Zace2 agonists may be
CC used to treat infertility while Zace2 antagonists are used for inducing
CC infertility. The present sequence represents the human Zace2 protein.
XX

SQ Sequence 805 AA;

Query Match 100.0%; Score 4291; DB 22; Length 805;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 805; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSSSWLLSLVAVTAAGSTIEQAKTFDLKFNHEAEDLFYQSSLASWNTNTNTEENVQ 60
Db 1 MSSSWLLSLVAVTAAGSTIEQAKTFDLKFNHEAEDLFYQSSLASWNTNTNTEENVQ 60
QY 61 MNMAGDKWSAFLKEOSTLAQMYPLQEIQNLTKVQLQALQOQNGSSVLSSEKSKRLNTIL 120
Db 61 MNMAGDKWSAFLKEOSTLAQMYPLQEIQNLTKVQLQALQOQNGSSVLSSEKSKRLNTIL 120
QY 121 NTMSTIYSTGKVCNPDNPQECILLLEPGLNEIMANSLDYNERLWAWESWRSEVKGQRLPLY 180
Db 121 NTMSTIYSTGKVCNPDNPQECILLLEPGLNEIMANSLDYNERLWAWESWRSEVKGQRLPLY 180
QY 181 EYVVLKEMARANHIEDYDGYWRGDIYVNGDYGVDYSRGQLEDVEHTEFEIKPLYEHL 240
Db 181 EYVVLKEMARANHIEDYDGYWRGDIYVNGDYGVDYSRGQLEDVEHTEFEIKPLYEHL 240
QY 241 HAYYRAKLMNAYPSYISPIGCLPAHLGDMGRFTNLYSLVTPFGQKPNIDYTDAMVDQ 300
Db 241 HAYYRAKLMNAYPSYISPIGCLPAHLGDMGRFTNLYSLVTPFGQKPNIDYTDAMVDQ 300
QY 301 AWDAQRIKFAEKFPFVSGLPNMTQGFWNSMLTDPGNVQKAVCHPTAWDLGKGFRLM 360
Db 301 AWDAQRIKFAEKFPFVSGLPNMTQGFWNSMLTDPGNVQKAVCHPTAWDLGKGFRLM 360
QY 361 CTKVTMDDFLTAHHEMGIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS 420
Db 361 CTKVTMDDFLTAHHEMGIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS 420
QY 421 IGLLSPDFQEDNTEINFLKQALTIIVGTLPTFTYMLEKRWVWFGEIPKQDQMKKWEM 480
Db 421 IGLLSPDFQEDNTEINFLKQALTIIVGTLPTFTYMLEKRWVWFGEIPKQDQMKKWEM 480
QY 481 KREIVGVPEVPHDETYCDPASLFHVNDYSFIRYTRTLXQFQEQALCOAAKHEGPLH 540
Db 481 KREIVGVPEVPHDETYCDPASLFHVNDYSFIRYTRTLXQFQEQALCOAAKHEGPLH 540
QY 541 KCDISNSTEAGOKLFNMLRLGKSEPTWTLALENVVGAKNMVRPLLNYFEPLFTWLKDQNK 600
Db 541 KCDISNSTEAGOKLFNMLRLGKSEPTWTLALENVVGAKNMVRPLLNYFEPLFTWLKDQNK 600
QY 601 NSFVGSWTDSWPYADQSIKVRISLKSALGDKAYENDNEMYLFRSSVAYAMROYFLVKVN 660
Db 601 NSFVGSWTDSWPYADQSIKVRISLKSALGDKAYENDNEMYLFRSSVAYAMROYFLVKVN 660
QY 661 QMILFGEEDVRVANLKPRIISFNFPVTAPKNVSDIIPRTEVEKAIKMSRSRINDAFRLNDN 720
Db 661 QMILFGEEDVRVANLKPRIISFNFPVTAPKNVSDIIPRTEVEKAIKMSRSRINDAFRLNDN 720

QY 721 SLEFLGIQPTLGGPPNPVSIWLIIVGVVGVVGVIVGIVILIFTGIRDRKKKARSGENP 780
 |||||
 Db 721 SLEFLGIQPTLGGPPNPVSIWLIIVGVVGVVGVIVGIVILIFTGIRDRKKKARSGENP 780
 |||||
 QY 781 YASIDISKGNNPGFQNTDDVQTSF 805
 |||||
 Db 781 YASIDISKGNNPGFQNTDDVQTSF 805
 |||||
 RESULT 5
 AAU09092
 ID AAU09092 standard; Protein; 711 AA.
 AC AAU09092;
 XX
 XX 20-DEC-2001 (first entry)
 DT
 XX
 DE
 XX
 XX Human; novel human protein; NHP; antidiabetic; antirheumatic;
 KW antiarthritic; cytostatic; antiarteriosclerotic; vulnerary;
 KW neuroprotective; nootropic; antiparkinsonian;
 KW anti-human immunodeficiency virus; antiasthmatic; vasotropic; cardiant;
 KW hypotensive; anorectic; antiinfertility; neuroleptic; anticonvulsant;
 KW antimanic; immunosuppressive; cerebroprotective; antimicrobial;
 KW antiinflammatory; antibacterial; antipsoriatic; thyromimetic;
 KW immunomodulator; antiseborrheic; dermatological; vasoconstriction;
 KW gastrointestinal disorder; cardiovascular disorder; hypertension;
 KW coronary heart disease; arteriosclerosis; anorexia; obesity; bulimia;
 KW cachexia; male infertility; impotence; testicular cancer; lung tumour;
 KW hyperproliferative disorder; pulmonary system disorder;
 KW central nervous system disorder; bone disorder;
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;
 KW Huntington's disease; schizophrenia; mania; dementia; paranoia;
 KW panic disorder; learning disability; amyotrophic lateral sclerosis;
 KW psychosis; autism; sleep disorder; immune system disorder;
 KW Hashimoto's thyroiditis; musculo-skeletal system disorders;
 KW multiple sclerosis; ischaemic brain injury; stroke; infectious disease;
 KW diabetes mellitus; immunological disorder; asthma; AIDS; immunogen;
 KW acquired immunodeficient syndrome; leukaemia; rheumatoid arthritis;
 KW inflammatory bowel disease; sepsis; acne; psoriasis; lupus erythematosus;
 KW neural system disorder; respiratory disorder; olfactory disorder;
 KW wound healing; chromosome X.
 XX
 OS Homo sapiens.
 XX
 FH Location/Qualifiers
 FT Domain 1..681
 FT /label= Extracellular_domain
 FT Region 48..55
 FT /label= Immunogenic_epitope
 FT Region 110..118
 FT /label= Immunogenic_epitope
 FT Region 136..146
 FT /label= Immunogenic_epitope
 FT Region 151..158
 FT /label= Immunogenic_epitope
 FT Misc-difference 219
 FT /label= OTHER
 FT /note= "Other- Any amino acid encoded by WST"
 FT Misc-difference 240
 FT /label= OTHER
 FT /note= "Other- Any amino acid encoded by RCC"
 FT Misc-difference 499
 FT /label= OTHER
 FT /note= "Other- Any amino acid encoded by NPT"
 FT 682..698
 FT /label= Transmembrane_domain
 FT Domain
 FT WO200174896-A1.
 PN
 XX 11-OCT-2001.
 PD

XX 02-APR-2001; 2001WO-US10542.
 XX 03-APR-2000; 2000US-194118P.
 PR 29-SEP-2000; 2000US-236384P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Moore PA, Ni J, Soppet DR, Coleman TA, Gentz RL, Endress GA;
 PI Li Y, Dillon PJ;
 PI
 XX WPI; 2001-626394/72.
 DR N-PSDB; AAS14880.
 XX
 PT New human proteins, useful for diagnosing, treating, preventing and/or
 PT prognosing disorders related to the proteins, including cardiovascular
 PT disorders, autoimmune disorders and reproductive disorders
 XX
 PS Claim 11; Page 298-301; 318pp; English.
 XX
 CC The invention relates to novel human proteins (NHP) and the
 CC nucleic acids that encode them and antibodies raised against them.
 CC The proteins, antibodies and nucleic acids are useful in the diagnosis,
 CC prognosis, prevention and/or treatment of diseases and/or disorders
 CC involving vasoconstriction, gastrointestinal disorders, cardiovascular
 CC disorders (e.g. hypertension, erectile dysfunction, high blood pressure,
 CC coronary heart disease and arteriosclerosis), anorexia, obesity, bulimia,
 CC cachexia, disorders of small intestine, disorders of reproductive system
 CC (e.g. male infertility and/or impotence), testicular cancer, lung tumours
 CC and other hyperproliferative disorders, disorders of pulmonary system,
 CC central nervous system disorders, bone disorders, neurodegenerative
 CC diseases and behavioural disorders (e.g. Alzheimer's disease, Parkinson's
 CC disease, Huntington's disease, schizophrenia, mania, dementia, paranoia,
 CC panic disorder, learning disabilities, amyotrophic lateral sclerosis,
 CC psychoses, autism, sleep disorders), immune system disorders (e.g.
 CC Hashimoto's thyroiditis), renal and musculo-skeletal system disorders,
 CC central nervous system disorders (e.g. multiple sclerosis, ischaemic
 CC brain injury and/or stroke), infectious diseases, diabetes mellitus,
 CC immunological disorders (e.g. asthma, acquired immunodeficient syndrome
 CC (AIDS), leukaemia, rheumatoid arthritis, inflammatory bowel disease,
 CC sepsis, acne, psoriasis and lupus erythematosus), neural system
 CC disorders, respiratory disorders, olfactory disorders and wound
 CC healing. The present sequence represents an NHP of the invention the
 CC gene for which is located on the X chromosome.
 XX
 SQ Sequence 711 AA;
 Query Match 88.0%; Score 3775; DB 22; Length 711;
 Best Local Similarity 99.3%; Pred. No. 1e-311;
 Matches 704; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
 QY 62 MNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTAVKLQALQQNGSSVLSKSKRLNTILN 121
 |||||
 Db 1 MNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTAVKLQALQQNGSSVLSKSKRLNTILN 60
 |||||
 QY 122 TMSTIYSTGKVCNPDPNPFQECILLPGLNEIMANSIDYNERLWAWESWRSEVGQRLPLYE 181
 |||||
 Db 61 TMSTIYSTGKVCNPDPNPFQECILLPGLNEIMANSIDYNERLWAWESWRSEVGQRLPLYE 120
 |||||
 QY 182 EYVVLNEMARAHYEDYGDYWRGDYEVNGVDGYDSRGQLEDYVHTTEIKPLYEHLH 241
 |||||
 Db 121 EYVVLNEMARAHYEDYGDYWRGDYEVNGVDGYDSRGQLEDYVHTTEIKPLYEHLH 180
 |||||
 QY 242 AYVRALMNAYPYSIPTGCLPAHLLGDMWGRFTWNLXSLTVPFGKPNIDVTDAMVDQA 301
 |||||
 Db 181 AYVRKLMNAYPYSIPGICLPAHLLGDMWGRFTWNLXSLTVPFGKPNIDVTDAMVDQA 240
 |||||
 QY 302 WDAQRIFFKEAEKFFVSGLPNMTQGFWNSMLTDPGNVQKAVCHPTAWDLKGDGDFRILMC 361
 |||||
 Db 241 WDAQRIFFKEAEKFFVSGLPNMTQGFWNSMLTDPGNVQKAVCHPTAWDLKGDGDFRILMC 300
 |||||
 QY 362 TKVTMDDFLTAHHEMIGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKSI 421
 |||||

QY 541 KCDISNSTEAGQKLFNMLRLGKSEPTWTLALENVVGAKNMNVRPLLNYFEPLETLWKDQNK 600
Db 541 KCDISNSTEAGQKLLKMLSLGNSEPTWTLALENVVGARNMDVRPLNYFQPLFWLKEQNR 600
QY 601 NSFVGWSTDSYADQSKTKVRSLSKALGDKAYEWNDNEMYLFSSVAYAMROYFLKVK 660
Db 601 NSFVGWNTWSPYADQSKTKVRSLSKALGANAYEWNTNEMFLRSSVAYAMRYFSIK 660
QY 661 QMILFGEDYRVANLKRISFNFFVAPKNVSDIIPREVEKAIMRSRGRINDAFRLNDN 720
Db 661 QTVPFLEEDYRVSLKPRVSFFVFTSPQNVSDVIPRSEVEDAIRMSRGRINDVFGINDN 720
QY 721 SLEFLGIQPTLGPDPQPVSLWLVGVGMGVIVVGVIVLIFTGIRDKKKNKARGENP 780
Db 721 SLEFLGIHPTLEPPYQPVTLWLVGVGMVIVVGVIVLIFTGIRKKKNKNETKEENP 780
QY 781 YASIDSKGNPNPQFQNTDDVQTSF 805
Db 781 YDSMDIGKGSNAGFQNSDDAQTSE 805
RESULT 7
AAB48098
ID AAB48098 standard; Protein; 805 AA.
XX
AC AAB48098;
DT 19-MAR-2001 (first entry)
XX
DE Mouse Zace2-10 protein.
XX
KW Zace2; metalloenzyme; angiotensin-converting enzyme; ACE; fertility;
KW zinc metalloproteinase; blood pressure; zinc protease; hypertension;
KW ventricular systolic dysfunction; renal impairment; heart failure;
KW scleroderma renal crisis; atherosclerosis; antiinflammatory; mouse;
KW antithratic; bradykinin inactivator.
XX
OS Mus sp.
XX
FH Key
FT Region
FT 19..613
FT /note= "fragment specifically claimed for"
FT 19..708
FT /note= "fragment specifically claimed for"
FT 19..738
FT /note= "fragment specifically claimed for"
FT 19..805
FT /note= "fragment specifically claimed for"
FT 133..542
FT /note= "fragment specifically claimed for"
FT 344..542
FT /note= "fragment specifically claimed for"
FT 371..402
FT /note= "fragment specifically claimed for"
XX WO200070032-A1.
XX
XX 23-NOV-2000.
XX
XX 03-MAY-2000; 2000WO-US11932.
XX
XX 13-MAY-1999; 99US-0311482.
XX 27-AUG-1999; 99US-0384706.
XX
XX (ZYMO) ZYMOGENETICS INC.
XX
XX Piddington CS, Petrie CR, Shoemaker KE, Bishop PD;
XX WPI; 2001-025018/03.
XX N-PSDB; AAC84370.
XX
XX Angiotensin-converting enzyme, Zace2, useful for treating inflammatory
XX bowel disease, e.g. Crohn's disease and ulcerative colitis, or diseases

associated with inflammation such as arthritis and enterocolitis -
Claim 7; Page 113-118; 125pp; English.
The invention relates to the metalloenzyme Zace2. Zace2, an angiotensin-
converting enzyme is a zinc metalloproteinase that plays roles in blood
pressure regulation and fertility. Zace2 can be expressed by standard
recombinant methodology. Zace2 polypeptides are useful for treating an
inflammatory bowel disease (e.g. Crohn's disease and ulcerative colitis),
diseases associated with inflammation like arthritis and enterocolitis,
as targets for identifying modulators of zinc protease activity, for
screening or identifying new angiotensin-converting enzyme (ACE)
inhibitors, and as a basis for rational drug design for inhibitory
molecules. The nucleic acids can be used to detect the expression of a
Zace2 gene in a biological sample, as probes for in vivo diagnosis and
for detecting and localizing Zace2 gene expression in tissue samples,
to determine whether a subject's chromosomes contain a mutation in the
Zace2 gene, and to detect aberrations associated with the Zace2 locus.
Inhibitors of ACE are used for treating hypertension of various
conditions, including left ventricular systolic dysfunction, progressive
renal impairment, scleroderma renal crisis, congestive heart failure due
to dysfunction, and treatment of atherosclerosis. Zace2 agonists may be
used to treat infertility while Zace2 antagonists are used for inducing
infertility. The present sequence represents the mouse Zace2-10 protein.
XX
SQ Sequence 805 AA;

Query Match 83.0%; Score 3561; DB 22; Length 805;
Best Local Similarity 81.9%; Pred. No. 1.9e-293;
Matches 659; Conservative 60; Mismatches 86; Indels 0; Gaps 0;
QY 1 MSSSWLLLSLVAVTAQAQSTIEEAKTFLDKFNHEADLFYQSSLASWNYNTNTEENVO 60
Db 1 MSSSWLLLSLVAVTAQAQSTIEEAKTFLDNFQAEADLSYQSSLASWNYNTNTEENAO 60
QY 61 MNMAGDKWSAFLKEQSTLQAQMYPLQEIQLNLTQKALQALQALQSSVLSSEKRLNTIL 120
Db 61 KMSEAAKWSAFYEQSKTAQSFSLQEIQTPIIKRQLQALQSSSALSADKNQNLNTIL 120
QY 121 NTMSTIYTGKVCNPDNPQECILLEPLGLNEIMANSIDYNRLNAWESWRSVQKOLRPLY 180
Db 121 NTMSTIYTGKVCNPNRNPQECILLEPLGLDEIMATSTDYNSRLNAWECWRAEVGKOLRPLY 180
QY 181 EYVVLKNEMARANHYEDYDWRGVDYGVNGDYDYSRGOLIEDVEHTEIEIKPLEHL 240
Db 181 EYVVLKNEMARANNINDYDWRGDIYEGADGYNNRNQOLIEDVERTFAEIKPLEHL 240
QY 241 HAYVRAKLMNAYPSYISPTGCLPAHLGDMWGRFTNLVSLTVPGOKPNIDVTDAMVDQ 300
Db 241 HAYVRRKLMNTYPSYISPTGCLPAHLGDMWGRFTNLVPLTVPFAOKPNIDVTDAMNQ 300
QY 301 ANDAQRIFKEAEKFPVSVGLPNMTQGFWNSMLTDFGNVQKAYCHPTAWDLGKGFRLM 360
Db 301 GWDAERIFQEAKEKFPVSVGLPMTQGFWANSMLETPADGRKVVCHPTAWDLGHGDFRKM 360
QY 361 CTKYTMDDFLTAHHEMGHIQYDMAYAAQFLLRNGANEGFHEAVGEIMSAATPKHLKS 420
Db 361 CTKYTMDFNLTAHHEMGHIQYDMAYARQFLLRNGANEGFHEAVGEIMSAATPKHLKS 420
QY 421 IGLLSPDFQEDNETEINFLLKQALTIQVGLPFTYMLEKRWVWFKEIPKIDQNMKKWEM 480
Db 421 IGLLSPDFQEDSETEINFLLKQALTIQVGLPFTYMLEKRWVWFKEIPKIDQNMKKWEM 480
QY 481 KREIVGVVEPVPHDETCDPASLPHVSNDSFYRYTRTYLQFQFQALCAAHKEGPLH 540
Db 481 KREIVGVVEPLPRDETCDPASLPHVSNDSFYRYTRTYLQFQFQALCAAHKEGPLH 540
QY 541 KCDISNSTEAGQKLFNMLRLGKSEPTWTLALENVVGAKNMNVRPLLNYFEPLETLWKDQNK 600
Db 541 KCDISNSTEAGQKLLKMLSLGNSEPTWTLALENVVGARNMDVRPLNYFQPLFWLKEQNR 600
QY 601 NSFVGWSTDSYADQSKTKVRSLSKALGDKAYEWNDNEMYLFSSVAYAMROYFLKVK 660
Db 601 NSFVGWSTDSYADQSKTKVRSLSKALGDKAYEWNDNEMYLFSSVAYAMROYFLKVK 660

Db 541 KCDISNSTEAGQL 554
 |||||
 RESULT 9
 ID AAY67311
 XX AAY67311 standard; Protein: 480 AA.
 AC AAY67311;
 XX 11-APR-2000 (first entry)
 DT Human MPROT15 amino acid sequence #2.
 DE MPROT15; treatment; hypertension; human; myocardial disease; apoplexy;
 KW heart disease; apoplexy; heart disease; nervous denaturation; hormone;
 KW Alzheimer's disease; cytokine.
 XX Homo sapiens.
 OS JP11318472-A.
 PN 24-NOV-1999.
 PD 22-JAN-1999; 99JP-0014949.
 PE 13-MAY-1998; 98GB-0010373.
 PR 18-AUG-1998; 98GB-0018009.
 XX (SMK) SMITHKLINE BEECHAM PLC.
 PA WPI; 2000-109268/10.
 DR MPROT15 polypeptide and MPROT15 polynucleotides - useful for the
 PT treatment of hypertension, myocardial diseases, apoplexy, heart
 PT diseases, nervous denaturation, Alzheimer's disease etc.
 XX Claim 19; Page 20-21; 22pp; Japanese.
 XX This is amino acid sequence #2 of human MPROT15. The MPROT15
 CC polynucleotide and polypeptide sequences can be used for the treatment of
 CC hypertension, myocardial diseases, apoplexy, heart diseases, nervous
 CC denaturation, Alzheimer's disease and diseases related to the processing
 CC of peptide hormones and cytokines.
 XX Sequence 480 AA;
 SQ
 Query Match 59.2%; Score 2539; DB 21; Length 480;
 Best Local Similarity 100.0%; Pred. No. 6.1e-207;
 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 11 LVAVTAAQSTIEQAKTFDQKFNHEADLFYQSSLSWNTNTNTEENVQNNNAGDKWS 70
 Db 10 LVAVTAAQSTIEQAKTFDQKFNHEADLFYQSSLSWNTNTNTEENVQNNNAGDKWS 69
 Qy 71 AFLKQSTLAQMYPLQEIQLTVKQLQALQNGSSVLSSEKSKRLNTILNTMSTIYSTG 130
 Db 70 AFLKQSTLAQMYPLQEIQLTVKQLQALQNGSSVLSSEKSKRLNTILNTMSTIYSTG 129
 Qy 131 KVCNPDNPOECLELLEPLGNEIMANSIDYNERLWAWESWRSVGVKQLPLYEYVVKLNM 190
 Db 130 KVCNPDNPOECLELLEPLGNEIMANSIDYNERLWAWESWRSVGVKQLPLYEYVVKLNM 189
 Qy 191 ARANHYEDYDGYWGRDYEYNGVDGYDSRGQLIEDVEHTEETKPLYEHLHAYVRKLMN 250
 Db 190 ARANHYEDYDGYWGRDYEYNGVDGYDSRGQLIEDVEHTEETKPLYEHLHAYVRKLMN 249
 Qy 251 AYPYSISPICLPAHLGLDMGRFNTNLSLTVPFGQKPNIDVTDMVDAQDAQRIFKE 310
 Db 250 AYPYSISPICLPAHLGLDMGRFNTNLSLTVPFGQKPNIDVTDMVDAQDAQRIFKE 309
 Qy 311 AEKFFVSGLPNMTQGFWNSMLTDPGNVQKAVCHPTAWDLGKDFRILMCTKVTMDDFL 370
 |||||

Db 310 AEKFFVSGLPNMTQGFWNSMLTDPGNVQKAVCHPTAWDLGKDFRILMCTKVTMDDFL 369
 Qy 371 TAHEMGHITQYDMAYAAQPFLLRANGANEGPHEAVGEIWSLSAATPKHLKSLGILLSDFQOE 430
 |||||
 Db 370 TAHEMGHITQYDMAYAAQPFLLRANGANEGPHEAVGEIWSLSAATPKHLKSLGILLSDFQOE 429
 Qy 431 DNETEINFLKQALTIQVGLPFTYMLEKRWMMVFKGEIPKQDQMKKWMEMK 481
 |||||
 Db 430 DNETEINFLKQALTIQVGLPFTYMLEKRWMMVFKGEIPKQDQMKKWMEMK 480
 RESULT 10
 ID AAU09102 standard; Protein: 261 AA.
 AC AAU09102;
 XX 20-DEC-2001 (first entry)
 DT Novel human protein NHP #11.
 DE Human; novel human protein; NHP; antidiabetic; antirheumatic;
 KW antiarthritic; cytostatic; antiarteriosclerotic; vulnery;
 KW neuroprotective; nootropic; antiparkinsonian;
 KW anti-human immunodeficiency virus; antiasthmatic; vasotropic; cardiant;
 KW hypotensive; anorectic; antiinfertility; neuroleptic; anticonvulsant;
 KW antianemic; immunosuppressive; cerebroprotective; antimicrobial;
 KW antiinflammatory; antibacterial; antipsoriatic; thyromimetic;
 KW immunomodulator; antiseborrheic; dermatological; vasoconstriction;
 KW gastrointestinal disorder; cardiovascular disorder; hypertension;
 KW coronary heart disease; arteriosclerosis; anorexia; obesity; bulimia;
 KW cachexia; male infertility; impotence; testicular cancer; lung tumour;
 KW hyperproliferative disorder; pulmonary system disorder;
 KW central nervous system disorder; bone disease;
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;
 KW Huntington's disease; schizophrenia; mania; dementia; paranoia;
 KW panic disorder; learning disability; amyotrophic lateral sclerosis;
 KW psychosis; autism; sleep disorder; immune system disorder;
 KW Hashimoto's thyroiditis; musculo-skeletal system disorders;
 KW multiple sclerosis; ischaemic brain injury; stroke; infectious disease;
 KW diabetes mellitus; immunological disorder; asthma; AIDS; immunogen;
 KW acquired immunodeficient syndrome; leukaemia; rheumatoid arthritis;
 KW inflammatory bowel disease; sepsis; acne; psoriasis; lupus erythematosus;
 KW neural system disorder; respiratory disorder; olfactory disorder;
 KW wound healing.
 XX Homo sapiens.
 OS WO200174896-A1.
 PN 11-OCT-2001.
 PD 02-APR-2001; 2001WO-US10542.
 PP 03-APR-2000; 2000US-194118P.
 PR 29-SEP-2000; 2000US-236384P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Moore PA, Ni J, Soppet DR, Coleman TA, Gentz RL, Endress GA;
 PI Li Y, Dillon PJ;
 PI WPI; 2001-626394/72.
 DR N-PSDB; AAS14890.
 XX New human proteins, useful for diagnosing, treating, preventing and/or
 PT prognosing disorders related to the proteins, including cardiovascular
 PT disorders, autoimmune disorders and reproductive disorders -
 XX Claim 11; Page 311-312; 318pp; English.
 XX The invention relates to novel human proteins (NHP) and the
 CC nucleic acids that encode them and antibodies raised against them.

CC The proteins, antibodies and nucleic acids are useful in the diagnosis,
CC prognosis, prevention and/or treatment of diseases and/or disorders
CC involving vasoconstriction, gastrointestinal disorders, cardiovascular
CC disorders (e.g. hypertension, erectile dysfunction, high blood pressure,
CC coronary heart disease and arteriosclerosis), anorexia, obesity, bulimia,
CC cachexia, disorders of small intestine, disorders of reproductive system
CC (e.g. male infertility and/or impotence), testicular cancer, lung tumours
CC and other hyperproliferative disorders, disorders of pulmonary system,
CC central nervous system disorders, bone disorders, neurodegenerative
CC diseases and behavioural disorders (e.g. Alzheimer's disease, Parkinson's
CC disease, Huntington's disease, schizophrenia, mania, dementia, paranoia,
CC panic disorder, learning disabilities, amyotrophic lateral sclerosis,
CC psychoses, autism, sleep disorders), immune system disorders (e.g.
CC Hashimoto's thyroiditis), renal and musculo-skeletal system disorders,
CC central nervous system disorders (e.g. multiple sclerosis, ischaemic
CC brain injury and/or stroke), infectious diseases, diabetes mellitus,
CC immunological disorders (e.g. asthma, acquired immunodeficient syndrome
CC (AIDS), leukaemia, rheumatoid arthritis, inflammatory bowel disease,
CC sepsis, acne, psoriasis and lupus erythematosus), neural system
CC disorders, respiratory disorders, olfactory disorders and wound
CC healing. The present sequence represents an NHP of the invention.

XX Sequence 261 AA;
Query Match 31.7%; Score 1359; DB 22; Length 261;
Best Local Similarity 99.6%; Pred. No. 4.4e-107;
Matches 252; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 62 MNNAGKWSAFLEKOSTLAQMPLOEQNLTKVQLQALQNGSSVLSBDSKRLNTILN 121
DB 1 MNNAGKWSAFLEKOSTLAQMPLOEQNLTKVQLQALQNGSSVLSBDSKRLNTILN 60
QY 122 TMTSTIYSTGKVCNPDNPQECLELLPGLNEIMANSLDYNERLWAWESRSEVGKQLRPLYE 181
DB 61 TMTSTIYSTGKVCNPDNPQECLELLPGLNEIMANSLDYNERLWAWESRSEVGKQLRPLYE 120
QY 182 EYVVLKNEMARANYEDYGVWRGDEYVNGVDYDYSRGQLIEDVHTFEETKPLYEHLH 241
DB 121 EYVVLKNEMARANYEDYGVWRGDEYVNGVDYDYSRGQLIEDVHTFEETKPLYEHLH 180
QY 242 AYVRKLMNAYPSYISPGCLPAHLGLDMGFRFTNLYSLTVPFGOKPNIDVTDAMVDQA 301
DB 181 AYVRKLMNAYPSYISPGCLPAHLGLDMGFRFTNLYSLTVPFGOKPNIDVTDAMVDQA 240
QY 302 WDAQRIFEAEKF 314
DB 241 WDAQRIFEAEKF 253

RESULT 11
AAR10426
ID AAR10426 standard; Protein; 732 AA.

XX AAR10426;
XX 10-APR-1991 (first entry)
XX Human testicular angiotensin conversion enzyme.
DE human testicular angiotensin conversion enzyme; tACE;
XX male sterility.

OS Homo sapiens.
XX Key Location/Qualifiers
FH Peptide 1..21
FT /label= signal peptide
FT Protein 22..732
FT /label= mature tACE
XX WO9100354-A.
XX 10-JAN-1991.

XX 05-JUL-1990; 90WO-FR00513.
XX 05-JUL-1989; 89FR-0009062.
XX (INRM) INST NAT SANTE RECH.
XX Soubrier F, Alhenc-Gelas F, Hubert C, Corvol P;
XX WPI; 1991-036748/05.
XX N-PSDB; AAQ10328.
XX Nucleic acid - encoding human testicular angiotensin conversion
XX enzyme, used e.g. for in vitro detection of enzyme in organism
XX Claim 1; Fig 1; 48pp; French.
XX A bank of human testicular cDNA in Lambda gtl1 was screened with a
XX probe containing the final 3248 nucleotides of endothelial ACE. The
XX complete sequence of tACE was reconstructed from 4 separate clones.
XX The isolated nucleic acid sequence was inserted into a plasmid for
XX expression of the protein. The invention covers polypeptides
XX containing all or part of tACE sequence. These are useful in
XX treatment of inflammation or infectious diseases, especially acute
XX pancreatitis, or diseases in which kinins are involved. Antibodies
XX against the polypeptides are useful as immunoassay reagents for
XX tACE.

XX Sequence 732 AA;
Query Match 31.3%; Score 1344; DB 12; Length 732;
Best Local Similarity 41.8%; Pred. No. 4.1e-105;
Matches 259; Conservative 119; Mismatches 204; Indels 38; Gaps 10;

QY 15 TAAQS-----TIEQAKTFLDKFNHEADLFYQSSLASNNYNTITEE-----NVQNM 62
DB 61 TSAQSPNLVDEAEASKFVEEYDRTSQVWVNEAYEANNNTNITTTSKILLQKNMOIA 120
QY 63 NNAGKWSAFLEKOSTLAQMPLOEQNLTKVQLQALQNGSSVLSBDSKRLNTILN 122
DB 121 NHT-----LKYGQARKFDYNQLNTTKRIKKVQDLERAAALPAQELEYENKILLD 172
QY 123 MSTIYSTGKVCNPDNPQECLELLPGLNEIMANSLDYNERLWAWESRSEVGKQLRPLYE 182
DB 173 METTYSVATVCHPNG--SCLEPDLTNVWATSRKYEDLLWAWEGWRDKAGRAILOFYPK 230
QY 183 YVVLKNEMARANYEDYGVWRGDEYVNGVDYDYSRGQLIEDVHTFEETKPLYEHLHA 242
DB 231 YVELNQARLNGYVDAGDSRSMYETPSLE-----QDLERLFOELQPLYLNLHA 280
QY 243 YVRKLMNAY-PSYISPGCLPAHLGLDMGFRFTNLYSLTVPFGOKPNIDVTDAMVDQA 301
DB 281 YVRRALHRYGAGHINLEGP1PAHLGLGNMAQTWSNIYDLVVPFPPSAFSDMTTEAMLKOG 340
QY 302 WDAQRIFEAEKFVSVGLPNMTGFWENSLTDPGNVOKAVCHPTAMDGLKG-DFRILM 360
DB 341 WTPRRFKADDEFTSLGLLPVDPPEFWNKSMLERPTGFEVVCASAWDFYNGKDFRIKQ 400
QY 361 CTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANGEGFHEAVGEIMSLSAATPKHLKS 420
DB 401 CTVNLEDLVVAHHEMGHIQYFMQYKDLPAVALREGANPGFHEAIGDVLALSYSTPKHLHS 460
QY 421 IGLSPDFQEDNTEINFLKQALTIIVGTLPFTTVMLEKRWMMVFGEIPKDDMMKKWEM 480
DB 461 LNLSSGEGSD-EHDINFLMKALDKIAFIPSYILVDQWRVRVFGSTKENTYNOEWSL 519
QY 481 KREIVGVPEVPVPHDEIYCDPASLPHVSNDSYFIKYYTTLTYQFOEALCOAKHGGPLH 540
DB 520 RLKYQGLCPVPVPTQGDGFCAGKFIHPSSVPIYFVFSFIQFOFHEALCOAGHTGPLH 579
QY 541 KCDISNSTEAGOKLENNMLRLGKSEPTWTLALENVVYGAKNMNVKPLNLYFEPLFTLWQDNK 600
DB 580 KCDIYOSKEAGQRLATAMKLGFSRPWEAMQLITGQPNNSASAMLSYFKPLDLDLWLTENE 639

QY 601 --NSFVGW-STDWSPYADQS 617
 Db 640 LHGEKLGWPQYNWTPNSARS 659

RESULT 12
 AAR04111
 ID AAR04111 standard; peptide; 1306 AA.
 XX AAR04111;
 AC
 XX
 DT 07-SEP-1990 (first entry)
 XX
 DE Human angiotensin converting enzyme (ACE).
 XX human angiotensin converting enzyme; hypertension; bradykinin.
 XX synthetic.
 OS
 XX

Key Location/Qualifiers
 FH 30..1277
 FT /label=mature ACE
 FT /note="derived from pre-ACE by removal of signal peptide"
 FT Modified-site 38..38
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 54..56
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 74..76
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 111..113
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 146..148
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 160..162
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 318..320
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 445..447
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 509..511
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 523..525
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 677..679
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 713..715
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 760..762
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 942..944
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 1191..1193
 FT Modified-site /label=putative N-glycosylation site
 FT Modified-site 1225..1227
 FT Modified-site /label=putative N-glycosylation site
 XX
 XX WO9003435-A.
 XX
 PD 05-APR-1990.
 XX
 PF 27-SEP-1989; 89WO-FR00496.
 XX
 PR 27-SEP-1988; 88FR-0012620.
 XX

(INRM) INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE.
 PA Soubrier F, Alhenc-Gelas F, Hubert C, Corvol P;
 PI WPI; 1990-132272/17.
 XX N-PSDB; AAQ04027.
 DR
 XX New DNA encoding human angiotensin converting enzyme used eg in

PT diagnosis of hypertension, evaluation of enzyme inhibitors
 XX Disclosure; ; p; French.
 XX Human angiotensin converting enzyme hydrolyses angiotensin I and kinins.
 CC Either intact enzyme or fragments thereof can be used to generate
 CC antibodies for diagnostic use. Oligonucleotide probes can also be made
 CC which are complementary to the sequence encoding the enzyme.
 XX
 SQ Sequence 1306 AA;

Query Match 31.2%; Score 1337; DB 11; Length 1306;
 Best Local Similarity 41.7%; Pred. No. 4e-104;
 Matches 255; Conservative 118; Mismatches 204; Indels 34; Gaps 9;

QY 20 TIEEAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEE-----NYONNNAGDKWSA 71
 Db | | | | | : : : : : | | | | | | | | | | : : | :
 QY 644 TDEAEASKEVEYDRTSQVWVNEAYEANNYNTNITTETSKILQKNQOIANHT----- 697
 Db | | | | | : : : : : | | | | | | | | | | : : | :
 QY 72 FLKEQSTLAQMYPLQEIQNLTVKRLQALQONGSSVLSSEKSKRLNTILNTMTSTIYSTGK 131
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 698 --LKYGTQARKFDVNQLQNTTIKRIKKVQDLERAAALPAQELEENKILLDMETYSVAT 755
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 132 VCNPNPOBCLLEPGLNETIMANSLDYNERLWAMESRSEVGKQLRPLYEYVVLKNEA 191
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 756 VCHPNG--SCLQLEPDLTNVMATSRKYEDLLWAEGRDKAGRAILOQFYPKYVELINQAA 813
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 192 RANHYEDYDWRGDEYVNGVDYDYSRGQLIEDVEVTFEIKPLYEHLHAYVRAKLMA 251
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 814 RLNGYVDAGDSWRSMYETPSLE-----QDLERLFOELQPLYLNLHAYVRRALHRH 863
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 252 Y-PSYISPIGCLPAHLGDMGREFWNLXSLTVPGOKPNIDVTQAMVDQADQRIKPE 310
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 864 YGAQHINLEGPPIPAHLIGNMNAQTWSNIYDLVVPFPSPAPSDMTTEAMLKQGTPRRME 923
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 311 AEFEVSVCGLPNMTQGFWENSMILTDPCNVOKAVCHPTAWDLGKG-DFRILMCTKVTMDDF 369
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 924 ADDFTSLGLLPVPEFWNKSMLEKPTDGREVVCHASAWDFYNGKDFRIKOCITVNLDEL 983
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 370 LTAHHEMGIQYDMAAYAAQPFLLRNGANEGFHEAVGEIMLSAATPKHLKSGLSPDFQ 429
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 984 VVAHHEMGIQYFMQYKDLVPALREGANPGFHEAIGDVALSVSTPKHLHSLNLSSEG 1043
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 430 EDNETEINFLLKQALITVGTLPFTYMLEKRWVFKGEIPKQDMKKWKEKREIVGVVE 489
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 1044 SD-EHDINFLMKMMLDKIAFIPFSYLVQDWRWRVFDGSITKENYNQEWWSLRKYQGLCP 1102
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 490 PVPHDETCDPASLFHVSNDYSFIRYTRTYLQFOFQALCOAAKHGKPLKCDISNSTE 549
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 1103 FVPRTQGFDPGAKFHPSSVPIRYFVSVFIQFQHEALCOAAGTGPLHKCDIYQSK 1162
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 550 AGQKLFNMLRLGKSPWTLALENVVGAKNMNVPLNLYFPFLTWLKDQNK--NSFVGW- 606
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 1163 AGQRLATAMKLGFSRPWPEAMQLITGQPNMSASAMLSYFPLDLWLKTENELHGEKLGWP 1222
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 607 STDWSPYADQS 617
 Db | | | | | : : : : : | | | | | : : : : : | | | | |
 QY 1223 QYNWTPNSARS 1233

RESULT 13
 AAW68155
 ID AAW68155 standard; Protein; 1306 AA.
 XX
 AC AAW68155;
 XX
 DT 09-NOV-1998 (first entry)
 XX
 DE Human angiotensin converting enzyme.
 XX Angiotensin converting enzyme; ACE; hypertension; exercise; human;
 KW genetic marker.
 XX

XX		The sequence represents an angiotensin converting enzyme splice variant (ACEV) polypeptide. The polypeptides of the invention include variants of granulocyte colony stimulating factor receptor, glucagon, interleukin 6, platelet-derived endothelial cell growth factor, cyclin-dependent kinase inhibitor 1C, cellular tumour antigen p53, and vasoactive intestinal polypeptide receptor 2. The polypeptides and their associated nucleic acids are useful for identification of variant sequences and detection of candidate compounds capable of binding the molecules. The sequences of the invention can be used in the treatment and diagnosis of various disorders including cardiovascular diseases such as arteriosclerosis, myocardial infarction and coronary arterial thrombosis, renal diseases such as diabetic nephropathy, muscular diseases such as hypertrophy, immune disorders such as immune complex nephritis, multiple sclerosis, cancer, sarcoidosis, nonrheumatoid pulmonary granulomatous diseases such as asbestosis and vascular pathologies involving an endothelial abnormality such as deep vein thrombosis.
CC	Sequence	1249 AA;
CC	Query Match	31.1%; Score 1334; DB 22; Length 1249;
CC	Best Local Similarity	42.6%; Pred. No. 6.7e-104;
CC	Matches 255; Conservative	112; Mismatches 213; Indels 18; Gaps 7;
QY	20 TIEEQAKTFLDENHAEADLFYQSSLASWNTNTNTEENVQNMMNAGDKWSAFUKEGSTL	79
DB	649 TDEAKADREVEEDRTAQVLNEYAEAANQWNTNITIEGSKILLKXSTEVSNNHTLKYGTR	708
QY	80 AQMYPLOETQLNVKLQALQQNGSSVLSSEDKSRLLNTILMTSIYSTGKVCNPNPQ	139
DB	709 AKTFDVSFNFSIKRIKKLLQDLRAVLPPELKEEYNQILDMEYTSLSNICYTNG--	766
QY	140 ECLLEPGLEIMANSLDYERLWAWESRSEVGKQLRPLYEEVVVKLMEMARANHVEDY	199
DB	767 TCMPLEPDLTNMATGRKYBELLMAWKSRRDKVGAIRLPFFPKHYEFSSNKIAKNGYDA	826
QY	200 GDYWRGDYEVNGVDGYDSRGQIIDEVHEHTPEEKPLYEHLHAYVRKALMNAYPS-YISP	258
DB	827 GDSWRSLYESDNLE-----QDLEKLYQEOLPYLNHLHAYVRSLRHHYGSERYNL	876
QY	259 IGCLPAHLGLDMGRFWNTLYSLTVFPGKNIDVTDAWDQAWDAQRIFFEAKKFFVSU	318
DB	877 DGPIPAHLGLGNWAQTWSNIYDLVAPFPASNIDATEAMIKOGWTTPRIFKEADNFTSL	936
QY	319 GLPNNTQGWEHSMLTDPGVNQKAVCHPTANDLGKG-DFRILMCTKVTDMDFLTAAHEMG	377
DB	937 GLLPVPPEEWNSMLEKPTDGREVVVCHPSAMDYFGKDPRFKQCTSVNMEDLVIAHEMG	996
QY	378 HIQYDMAYAQAQPELLRANGEPHEAVEINSLSAATPKHLKSIGLLSPDFQEDNETEIN	437
DB	997 HIQYPMQYKDLPTVFREGANPGPHEATGDIAMLSYSTPKHLYSLNLSTE-GSGYEYDIN	1055
QY	438 FLLKOALTIVGTLPFYMLBKRWMTVKEIPKDDQMKKWEMKREIVGVPEVPHDET	497
DB	1056 FLMKALDKIARIPTSYLIDQWRWRVFDGSTTKENYNQEWLSRLRYQJGCLPPVPRSQGD	1115
QY	498 CDPASLFHYSNDYSFIYYRTTYLQFOFEALCOAAKHGELPHKDCISNSTEAGOKLFNM	557
DB	1116 FDPGSKSHPANVPVYRVYFSIIQFOFHEALCRAGHTGPLHKCDIYOSKEAGKLLADA	1175
QY	558 LRLGKSEPWTALENVGAKNMNVRPLLNYEPIFLTWLKDQNK--NSFVGW-STDWSP	612
DB	1176 MKLGYSKPWEAKMLKITGPMSASAMMYFKPLTEWLVTENRRHGCTLGCWPPEYNWAP	1233
RESULT 15		
AAU02985	ID	AAU02985 standard; Protein; 1252 AA.
XX	AC	AAU02985;
XX	DT	12-SEP-2001 (first entry)
XX		

DE	XX	Angiotensin converting enzyme (ACEV) splice variant protein #85.
KW	XX	Angiotensin converting enzyme splice variant; ACEV; interleukin 6;
KW	XX	granulocyte colony stimulating factor receptor; glucagon; hypertrophy;
KW	XX	platelet-derived endothelial cell growth factor; cardiovascular disease
KW	XX	cellular tumour antigen P53; cyclin-dependent kinase inhibitor 1C;
KW	XX	vasoactive intestinal polypeptide receptor 2; arteriosclerosis; cancer;
KW	XX	myocardial infarction; coronary arterial thrombosis; renal disease;
KW	XX	diabetic nephropathy; muscular disease; immune disorder; sarcoidosis;
KW	XX	multiple sclerosis; immune complex nephritis; deep vein thrombosis;
KW	XX	nonrheumatoid pulmonary granulomatous disease; endothelial abnormality;
KW	XX	vascular disorder; asbestosis.
OS	XX	Mus sp..
XX	XX	WO200136632-A2.
XX	XX	25-MAY-2001.
XX	XX	17-NOV-2000; 2000WO-IL00766.
PF	XX	17-NOV-1999; 99IL-0132978.
PR	XX	10-DEC-1999; 99IL-0133455.
XX	XX	(COMP-) COMPUGEN LTD.
PA	XX	Levine Z, David A, Azar I, Khosravi R, Bernstein J;
PI	XX	WPI; 2001-336004/35.
DR	XX	N-PSDB; RAAS06085.
DR	XX	Novel alternative splicing variants e.g. variant of angiotensin
PT	XX	converting enzyme (ACEV), useful in identifying candidate compounds
PT	XX	capable of binding to the variant and to detect anti-variant antibodies
PT	XX	-
PS	XX	Claim 4; Fig 85; 519pp; English.
PS	XX	The sequence represents an angiotensin converting enzyme splice variant
CC	XX	(ACEV) polypeptide. The polypeptides of the invention include variants of
CC	XX	granulocyte colony stimulating factor receptor, glucagon, interleukin 6,
CC	XX	platelet-derived endothelial cell growth factor, cyclin-dependent kinase
CC	XX	inhibitor 1C, cellular tumour antigen P53, and vasoactive intestinal
CC	XX	polypeptide receptor 2. The polypeptides and their associated nucleic
CC	XX	acids are useful for identification of variant sequences and detection of
CC	XX	candidate compounds capable of binding the molecules. The sequences of
CC	XX	the invention can be used in the treatment and diagnosis of various
CC	XX	disorders including cardiovascular diseases such as arteriosclerosis,
CC	XX	myocardial infarction and coronary arterial thrombosis, renal diseases
CC	XX	such as diabetic nephropathy, muscular diseases such as hypertrophy,
CC	XX	immune disorders such as immune complex nephritis, multiple sclerosis,
CC	XX	cancer, sarcoidosis, nonrheumatoid pulmonary granulomatous diseases such
CC	XX	as asbestosis and vascular pathologies involving an endothelial
CC	XX	abnormality such as deep vein thrombosis.
XX	XX	Sequence 1252 AA;
XX	XX	Query Match 31.1%; Score 1334; DB 22; Length 1252;
XX	XX	Best Local Similarity 42.6%; Pred. No. 6.7e-104;
XX	XX	Matches 255; Conservative 112; Mismatches 213; Indels 18; Gaps
QY	20	TIEQAKFLDFKNFAEDLFYOSSLASWYNTNTEENVQNMNAGDKWSAFLKEQSTL 79
DB	649	TDEAKADRVFDRTPAQVLLNAYAEANWOYNTNITTEGSKILLEKSTEVSNHTLKYGR 708
QY	80	AQMYPLQETQNTLVKQLQALQONGSSVLSEDKSKRLNTILNTMTSTYSTGVCNPDNQ 139
DB	709	AKTFDVSFNQNSIKRIKKLQNLDRVLPPEKEEYFNQILLDMETTSLSNICYTNG-- 766
QY	140	ECLLLEPLGNETMANSLDYNERLWAWESRSEVGKQLRPLVEEYVVLKEMARAHVEDY 199
DB	767	TCMPLEPDLTNNMATSRRKYEELLWAKSWRDKVGRALILPPFKYVEFSNKIAKNGYTTA 826

Qy 200 GDYWRGDEYVNGDYGDYSRGQIEDVEHTFEEIKPLYEHLHAYVYRAKLMNAYPS-YISP 258
Db 827 GDSWRSLEYSDNLE-----QDLEKLYQELQPLYNLHAYVYRSLSLHRYGSEYINL 876
Qy 259 IGCPLPAHLGDMGCRFWTNLYSLTVPGQKPNIDVTAMVDQAWDAQRIKFAERKFFVSV 318
Db 877 DGPIPAHLGLGNMNAQTWSNIYDLVAPPSAPNIDATEAMIKQGWTPRRIFKEADNFFTSL 936
Qy 319 GLPNMTQGFENSMITDPCNVQKAVCHPTAWDLGKG-DFRILMCTKVMTDDFLTAHHMG 377
Db 937 GLLPVPPEFWNKSMLKPTDGREYVCHPSAWDFYNGKDFRIKQCTSVNMDLIVIAHHMG 996
Qy 378 HIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKSLGILLSPDFQEDNETEIN 437
Db 997 HIQYFMOYKDLPTFRREGANPGFHEALGDINALSVSTPKHLYSLNLLSTE-CSGYEYDIN 1055
Qy 438 FLKQALTIYGTLPFTYMLEKRWMMVEKGEIPKQDQMKKWMEMKREIVGVVPEVPVPHDETY 497
Db 1056 FLMKMALDKTAFIPFSYLIDQWRWRFVDSITKENYQEWNSRLKYOGLCPVPSQGD 1115
Qy 498 CDPASLFHVSNDYSPIRYTTLTYQFQFQFQFQFQFQFQFQFQFQFQFQFQFQFQFQF 557
Db 1116 FDPGSKFHPANVPYVRYFVSFIQFQFHEALCRAAGHTGPLHKCDIYQSKKAGKLLADA 1175
Qy 558 LRLGKSEPTLALENVVGAKNMNYRPLLNKYEPLFTWLKQDNK--NSFVGW-STDWSP 612
Db 1176 MKLIGSKPWPEAMKLITGQPNMSASAMNYPKPLTEWLVTENRRRHGETLIGWPEYNWAP 1233

Search completed: October 9, 2002, 17:52:52
Job time : 66 secs